# <u>Listing of Claims</u>:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Claims 1 to 7 CANCEL

#### 8. NEW

A knock sensor for an internal combustion engine with an electronically evaluated vibration sensor that is realized in the form of a piezoresistive amorphous carbon layer (5; 8; 9; 10) with a thickness between 10 nm and 500  $\mu$ m, particularly between 10 nm and 20  $\mu$ m, wherein this layer is rigidly applied onto a surface section of a base body (1, 4, 4', 10), wherein

- the knock sensor comprises at least one spring washer (4, 4') that is or can be tensioned relative to the internal combustion engine, and in
- a piezoresistive amorphous carbon layer (5) is applied onto at least one face of the at least one spring washer (4; 4').

#### 9. NEW

The knock sensor according to Claim 8, wherein

the carbon layer measures between 10 nm and 500  $\mu\text{m},$  preferably between 10 nm and 20  $\mu\text{m}.$ 

## 10. NEW

The knock sensor with a seismic mass (3, 3') according to Claim 8, wherein

the at least one piezoresistive amorphous carbon layer (8; 9; 10) is arranged between the seismic mass (3, 3') and an abutment (1) or (2) that respectively is or can be rigidly connected to the internal combustion engine.

### 11. NEW

The knock sensor according to claim 8, wherein at least two spring washers (4, 4') are arranged in series with or without a seismic mass (3') provided in between.

# 12. NEW

The knock sensor according to claim 10, wherein the seismic mass (3, 3') is integrated into at least one spring washer (4, 4').

### 13. NEW

The knock sensor according to claim 8, wherein that said knock sensor is provided with means for a telemetric signal tap.